

101.6 - Stainless Steels (chip form)

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	73c	101g	123c	133b	160b	166c	339	343a	893
Description									
Stainless Steel, Cr (SAE 420)	Stainless Steel (AISI 304L)	Stainless Steel, Cr-Ni-Nb (AISI 348)	Chromium-Molybdenum Steel		Stainless Steel (Cr 18-Ni 12-Mo 2) (AISI 316)	Stainless Steel, Low-Carbon (AISI 316L)	17 Chromium-9 Nickel-0.2 Selenium Steel	Stainless Steel (AISI 431)	Stainless Steel (SAE 405)
Unit of Issue	(150 g)	(100 g)	(150 g)	(150 g)	(150 g)	(100 g)	(150 g)	(150 g)	(150 g)

Elemental Composition (mass fraction in %)

Aluminum (Al)							(0.001)	(0.20)
Arsenic (As)					0.01067			
Bismuth (Bi)					(<0.0005)			
Boron (B)							(<0.001)	
Carbon (C)	0.310	0.0136	0.056	0.128	0.0445	0.00781	0.052	0.149
Chromium (Cr)	12.82	18.46	17.40	12.63	18.37		17.42	15.64
Cobalt (Co)		0.09	0.12		0.1052		0.096	(0.04)
Copper (Cu)	0.080	0.029	0.103	0.080	0.1734		0.199	0.162
Lead (Pb)					(0.001)			(<0.0001)
Manganese (Mn)	0.330	0.085	1.75	1.07	1.619		0.738	0.42
Molybdenum (Mo)	0.091	0.004	0.22	0.052	2.386		0.248	0.164
Nickel (Ni)	0.246	10.00	11.34	0.230	12.35		8.89	2.16
Niobium (Nb)			0.65				(0.01)	(<0.0005)
Nitrogen (N)	0.037			0.05	(0.04)			
Phosphorus (P)	0.018	0.007	0.024	0.018	0.0200		0.129	0.026

Elemental Composition (mass fraction in %)

Selenium (Se)						0.247	(<0.0001)
Silicon (Si)	0.181	1.08	0.59	0.327	0.5093	0.654	0.545
Sulfur (S)	0.036	0.0078	0.014	0.328	0.0175	0.013	0.001
Tantalum (Ta)		<0.001					(<0.001)
Titanium (Ti)							(<0.001)
Tungsten (W)					(0.11)		(0.01)

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**Stainless
Steel
(SAE
201)**

(150 g)

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0.066

16.72

0.126

0.439

(0.0001)

7.09

0.337

5.34

(<0.009)

0.038

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(<0.0001)

0.399

0.0033

(<0.001)

(<0.0004)

(0.03)

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Vanadium (V)	0.030	0.041	0.071	0.0508	0.058	0.056	0.080
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0.079

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